

# Invasive Carp Prevention, Detection, and Preparation Michigan's Actions and Activities to February 2016 Department of Natural Resources

Contact: Tammy Newcomb, Ph.D., Senior Water Policy Advisor, DNR, 517-284-5832

# **PLANNING**

- Actively participate on the Asian Carp Regional Coordinating Committee Focus on the Chicago Area Waterway System (CAWS). Participated as a partner agency and cooperated with partner agencies to evaluate control mechanisms and pathways for Asian carp into the Great Lakes
- Serve on the U.S. Army Corp of Engineers Great Lakes Mississippi River Interbasin Separation Study
   Brandon Road Executive Steering Committee
- Served as a resource member on the CAWS Advisory Committee seeking consensus for long-term solutions to keep invasive carp out of the Great Lakes

### **PREPARATION**

- Conducted a tabletop exercise to prepare for addressing an invasive carp report (2013)
- Conducted a field exercise in the St. Joe River to better prepare Fisheries Division for a possible Asian carp
  detection or invasion (2013). Effort was over 1 week, employing 15 boats, 32 staff, included experimental
  gear and cost \$93,000, providing insight as to what it would take to address Asian carp concerns in
  Michigan tributaries.
- Attended U.S. Geological Services control technology demonstration in Morris, Illinois (2014)
- Early detection response exercise in Lake Erie, partnering with Ohio (2014)
- Innovated and acquired a response trailer and specific equipment such as blocking nets to use in case of a possible Asian carp detection (2014)
- Working with Illinois in 2014 to have Michigan DNR staff work collaboratively in an Asian carp removal/assessment effort
- Continued partnership with Illinois in 2015 to assist with barrier defense removal efforts on the Illinois
   River, while also increasing staff training with removal methodologies for Asian carp

#### DETECTION

- eDNA cooperate and collaborate with partner agencies to collect environmental DNA samples from areas where invasion is expected based upon habitat and geographic criteria in Lakes Erie and Michigan
- Commercial Fishermen reimbursement program: provide reimbursement to a Lake Erie commercial fisherman to assist with sampling grass carp and monitor for bighead and silver carp
- Compensated commercial fishers for targeted effort in areas with preferred habitat (2015)
- Inspected bait shops and live food markets for the presence of bighead and silver carp. Also investigated
  public reports of live bighead or silver carp in food markets. No bighead or silver carps were detected
  during inspections and investigations (2015)
- Increased public and stakeholder awareness for reporting mechanisms with creation and promotion of new invasive species website (www.michigan.gov/invasivespecies)

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### **OUTREACH AND EDUCATION**

- Produced the juvenile Asian carp identification video (<a href="http://www.youtube.com/watch?v=teklq3L0gPA&feature=youtu.be">http://www.youtube.com/watch?v=teklq3L0gPA&feature=youtu.be</a>)
- Produced bighead and silver carp displays for education/outreach events
- Multiple presentations, radio, and television interviews throughout the state regarding invasive carp

#### RESEARCH

- Serve on a Management Transition Board for the NOAA/GLRI invasive species projects at Notre Dame to evaluate eDNA technologies and monitoring, and invasive species pathways (2013-2016)
- Initiated grass carp (as a surrogate for bighead and silver carp) research in western Lake Erie (2014)
- Partnered with Central Michigan University and Michigan State University to implement grass carp
  research to determine reproductive capacity, natal origin, and seasonal habitat use and movements to
  gain knowledge that will increase effectiveness of future control efforts for all invasive carp species
  (2015)
- Initiated invasive carp stakeholder workshop project to gage public perception on control options, including use of chemicals, to prepare for implementation of invasive carp control actions if they are introduced in Michigan waters (2015)

# CRITICAL TO PREVENTING INVASIVE CARP FROM ENTERING THE GREAT LAKES

- Support ongoing activities for prevention, detection, management, & control through the Asian Carp Regional Coordinating Committee Framework
- Fund construction at Brandon Road to prevent transfer of invasive species to the Great Lakes
- Continue to seek long term actions to prevent transfer of invasive species between the Mississippi River and Great Lakes basins











































